

## Sample MDX Query Statement

```
Select NON EMPTY {[Customers].[All Customers]} On Columns, NON EMPTY {[Education Level].[All Education Level], [Education Level].[All Education Level].[Bachelors Degree], [Education Level].[All Education Level].[Graduate Degree], [Education Level].[All Education Level].[High School Degree], [Education Level].[All Education Level].[Partial College], [Education Level].[All Education Level].[Partial High School]} On Rows From [Sales]
```

## Sample Report Script Query Statement

```
{TABDELIMIT} {DECIMAL 10} <QUOTE MBRNAMES {OUTMBR NAMES} {MISSINGTEXT "0"}>  
<ROW("Periods")> <COLUMN("Chart of Accounts")> <DUPLICATE "Chart of Accounts">  
<DUPLICATE "p Begin Bal"> <DUPLICATE "p Qtr1"> <DUPLICATE "p Qtr2"> <DUPLICATE "p Qtr3"> <DUPLICATE "p Qtr4"> <DUPLICATE "p Qtr1 YTD"> <DUPLICATE "p Qtr2 YTD"> <DUPLICATE "p Qtr3 YTD"> <DUPLICATE "p Qtr4 YTD"> <DUPLICATE "Periods" !
```

FIG. 1  
(BACKGROUND ART)

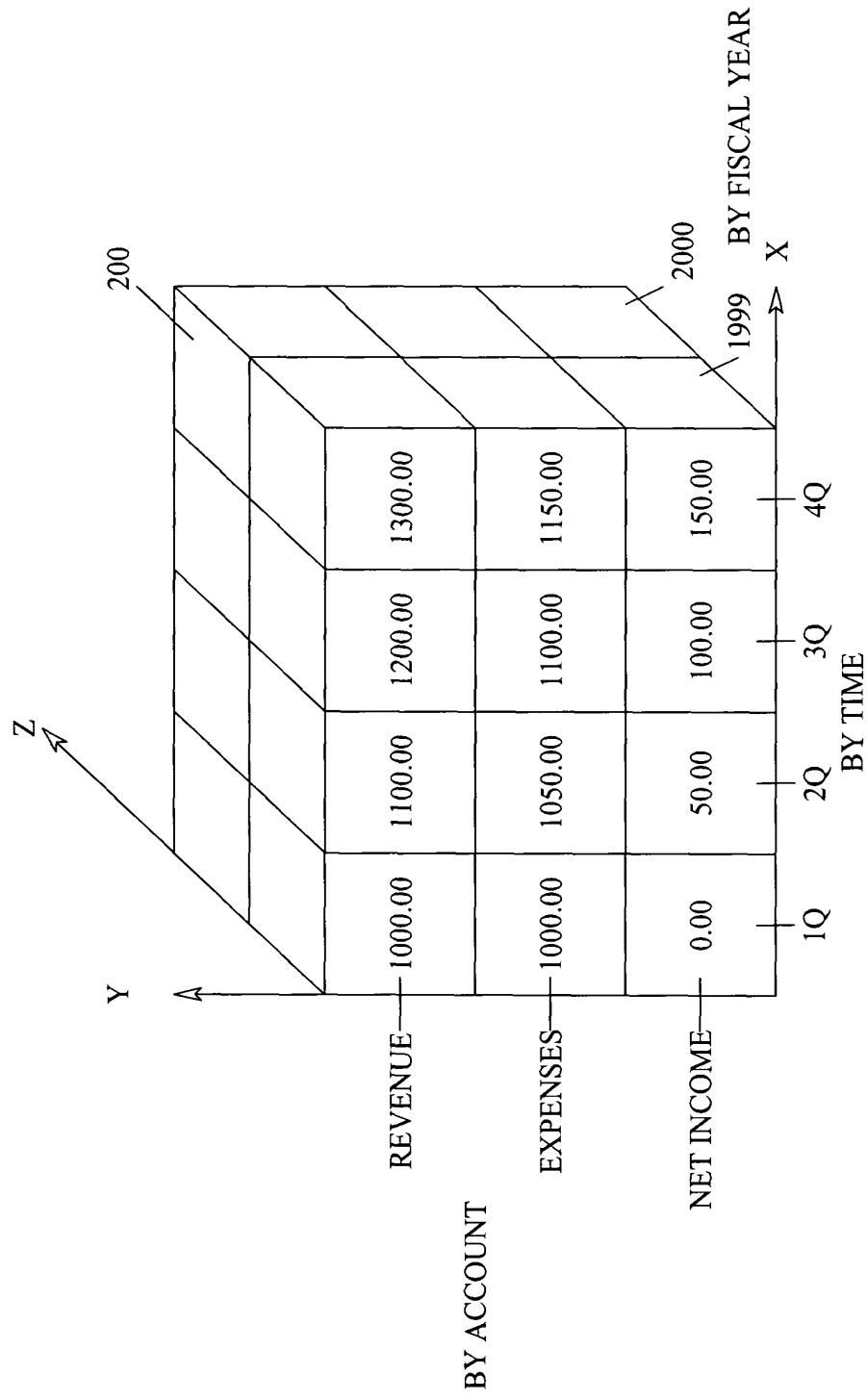


FIG. 2

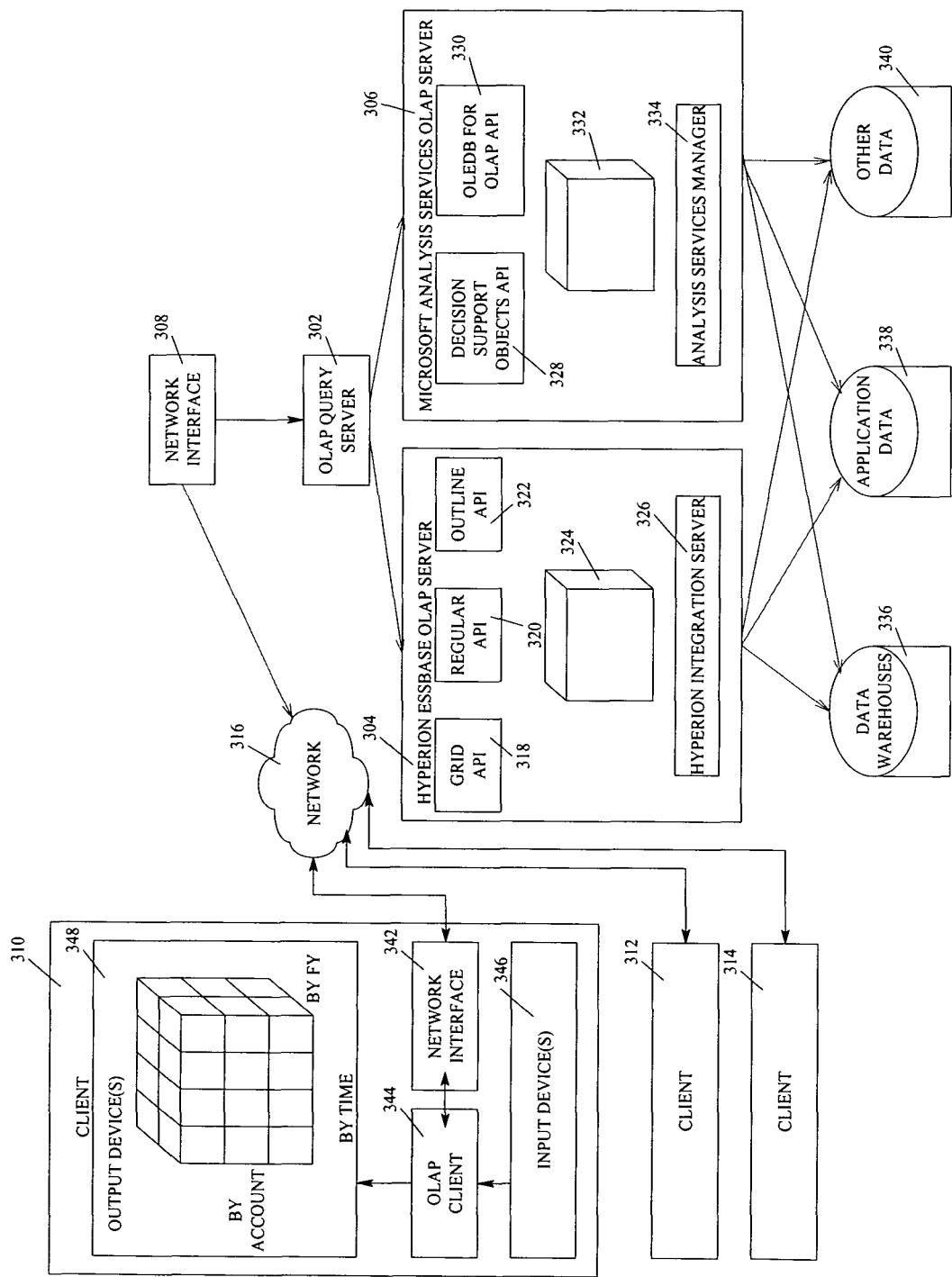


FIG. 3

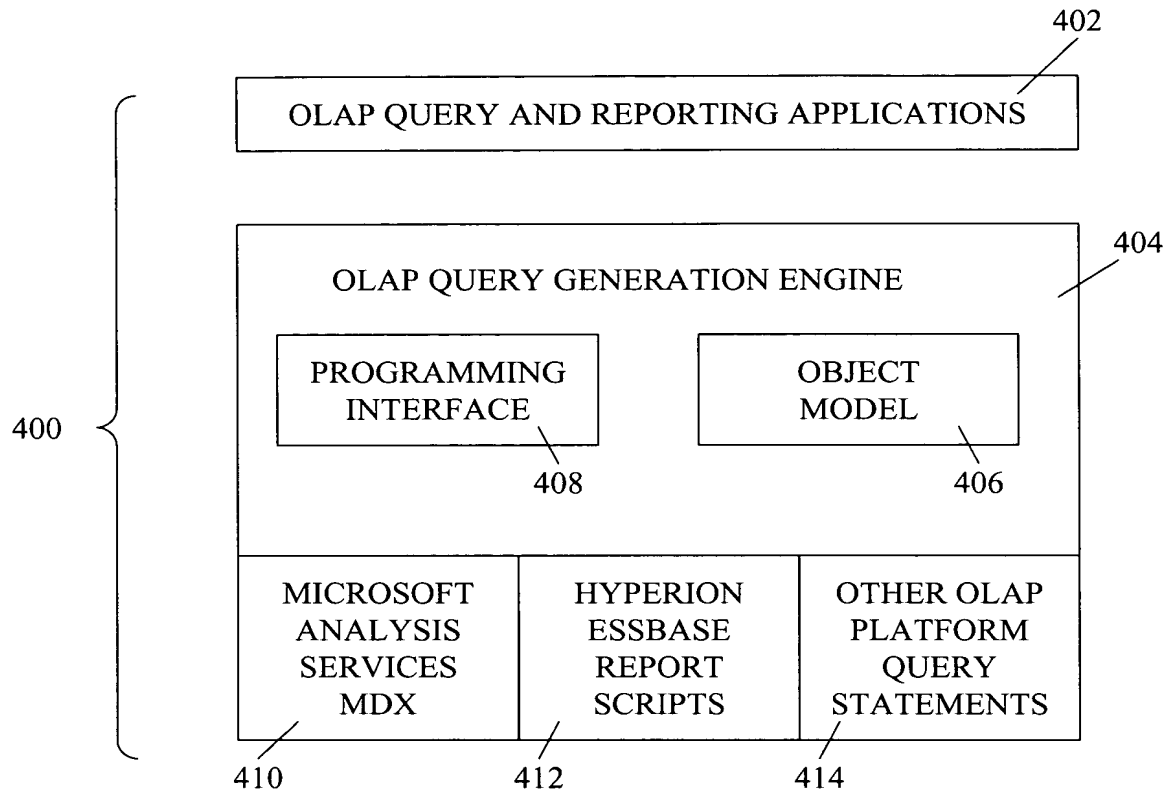


FIG. 4

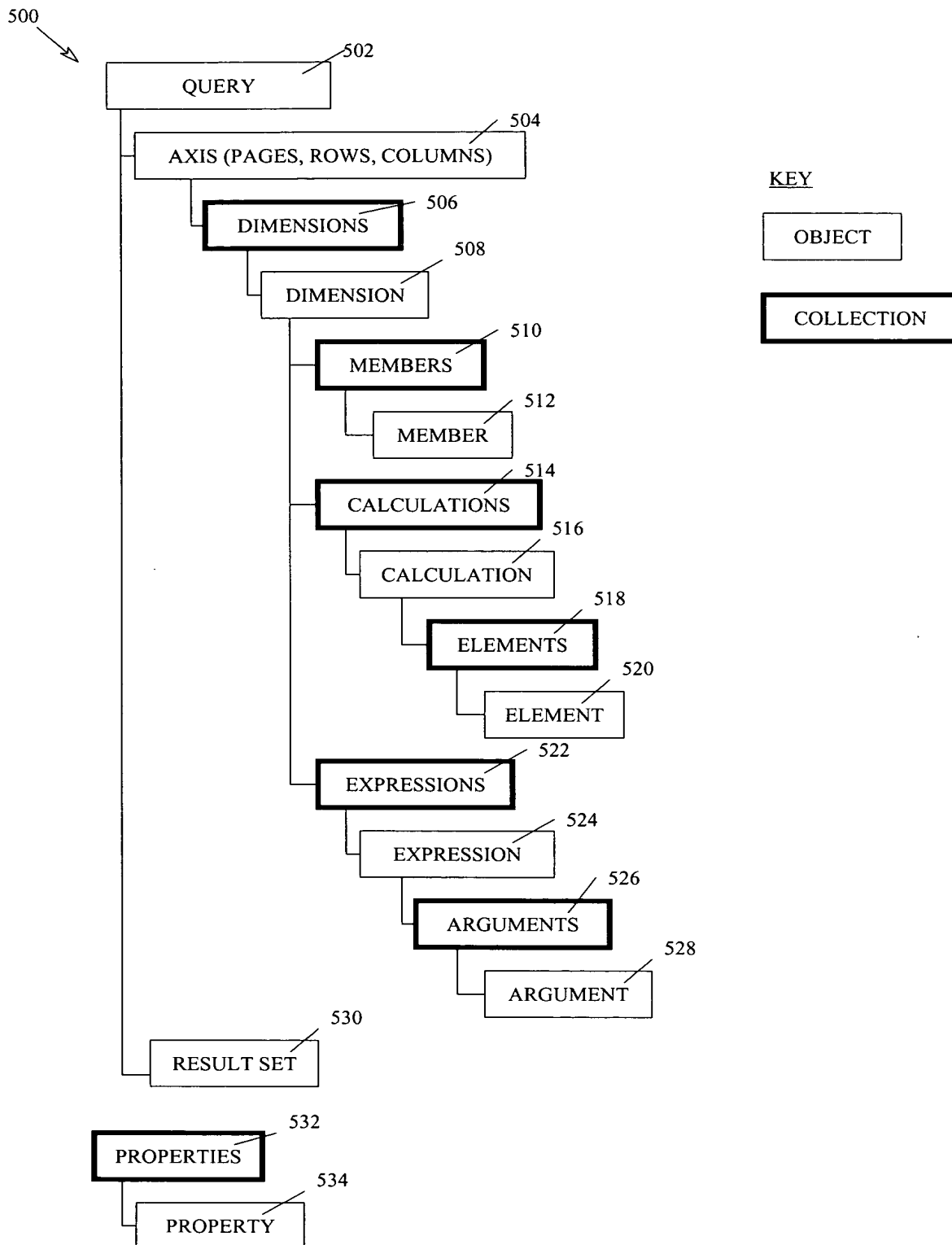


FIG. 5

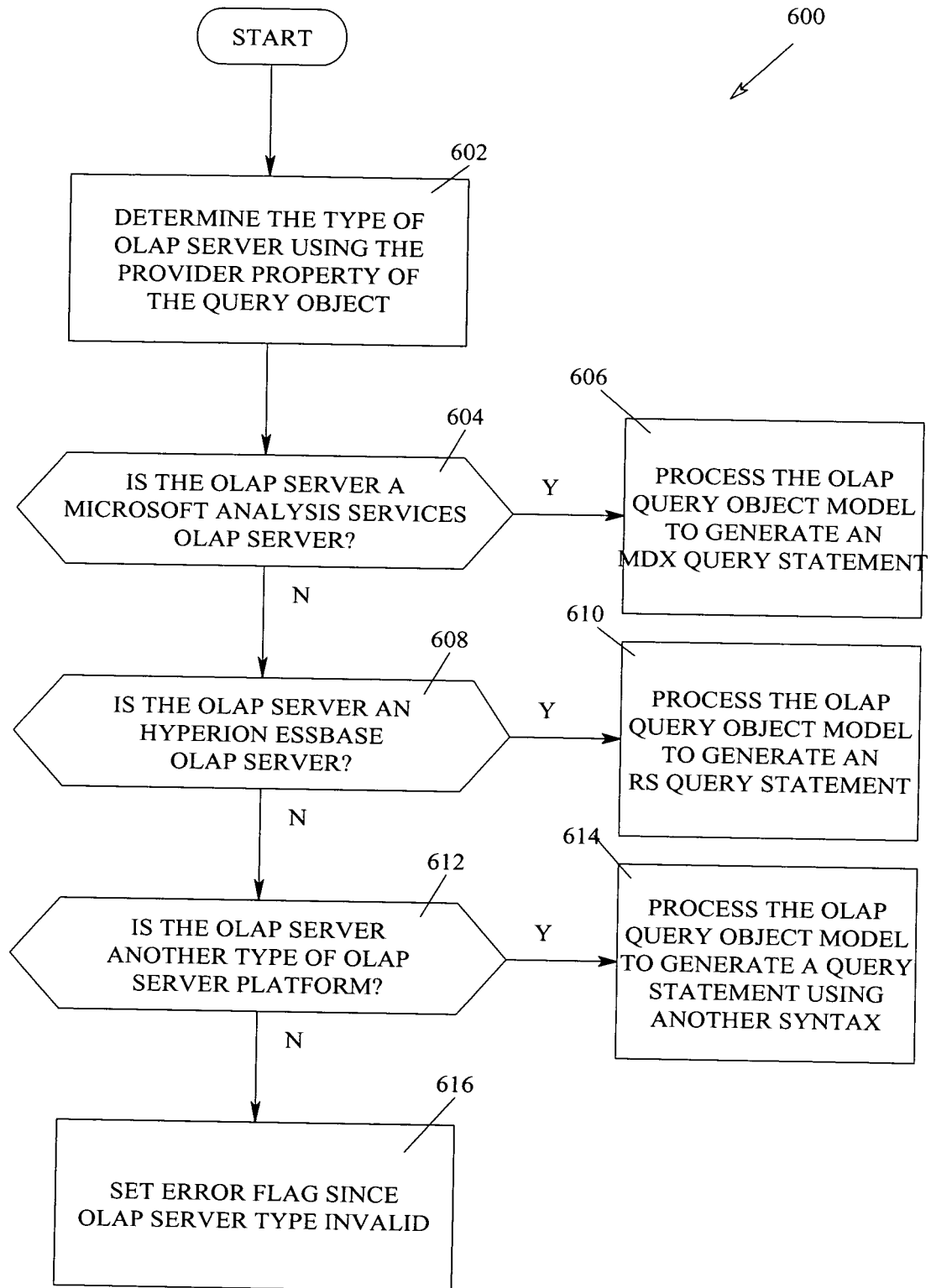


FIG. 6

700

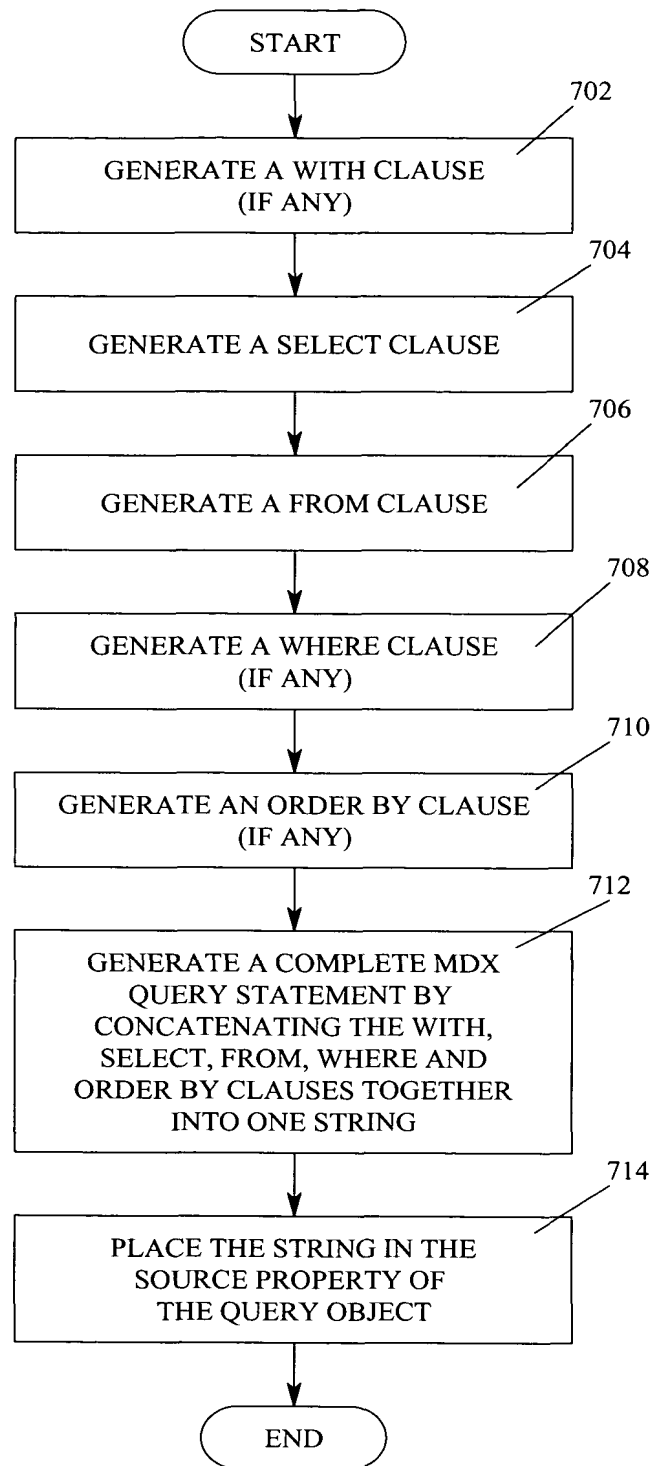


FIG. 7

800

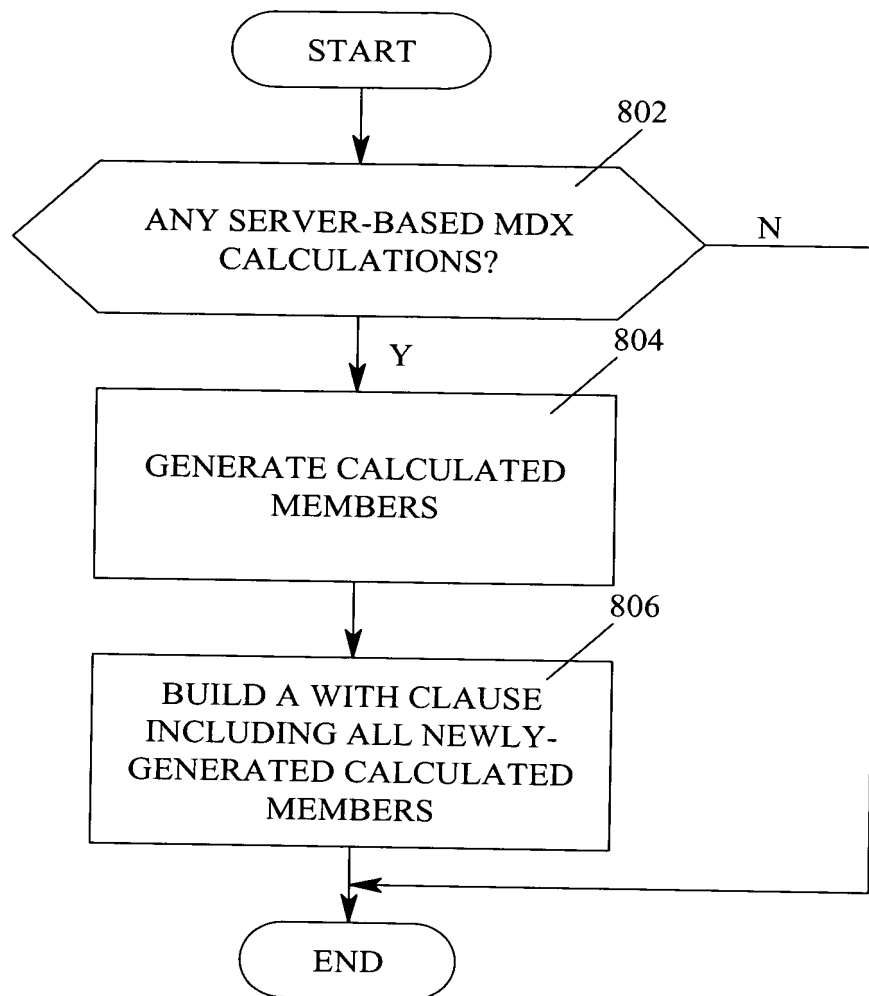


FIG. 8



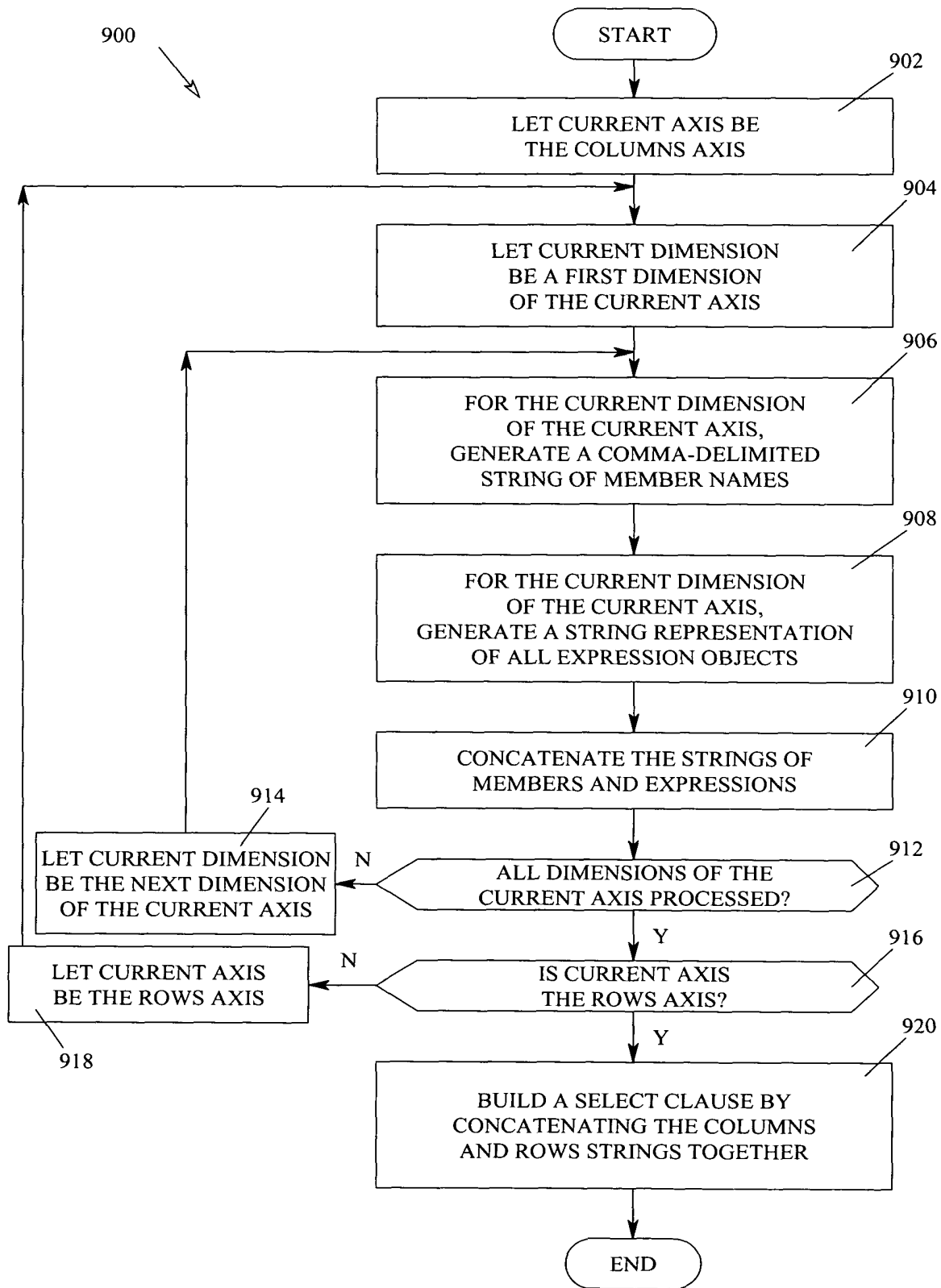


FIG. 9

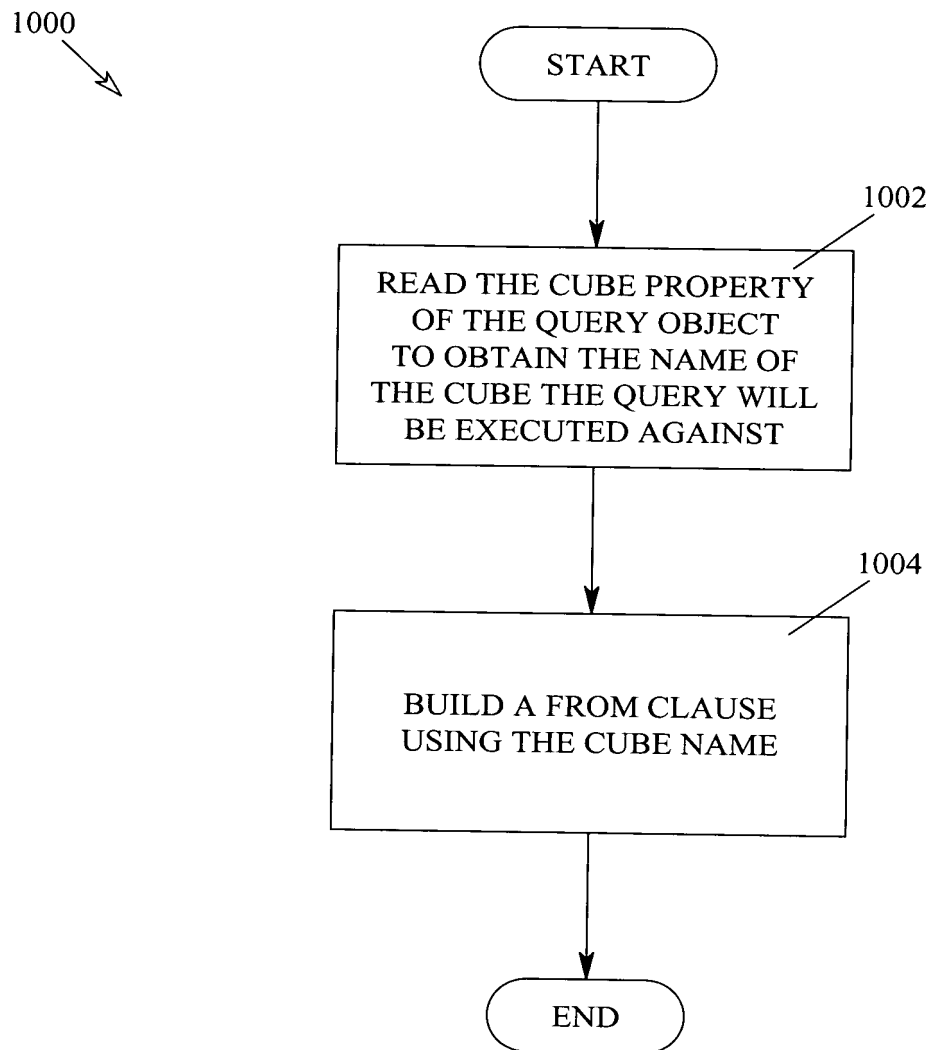


FIG. 10

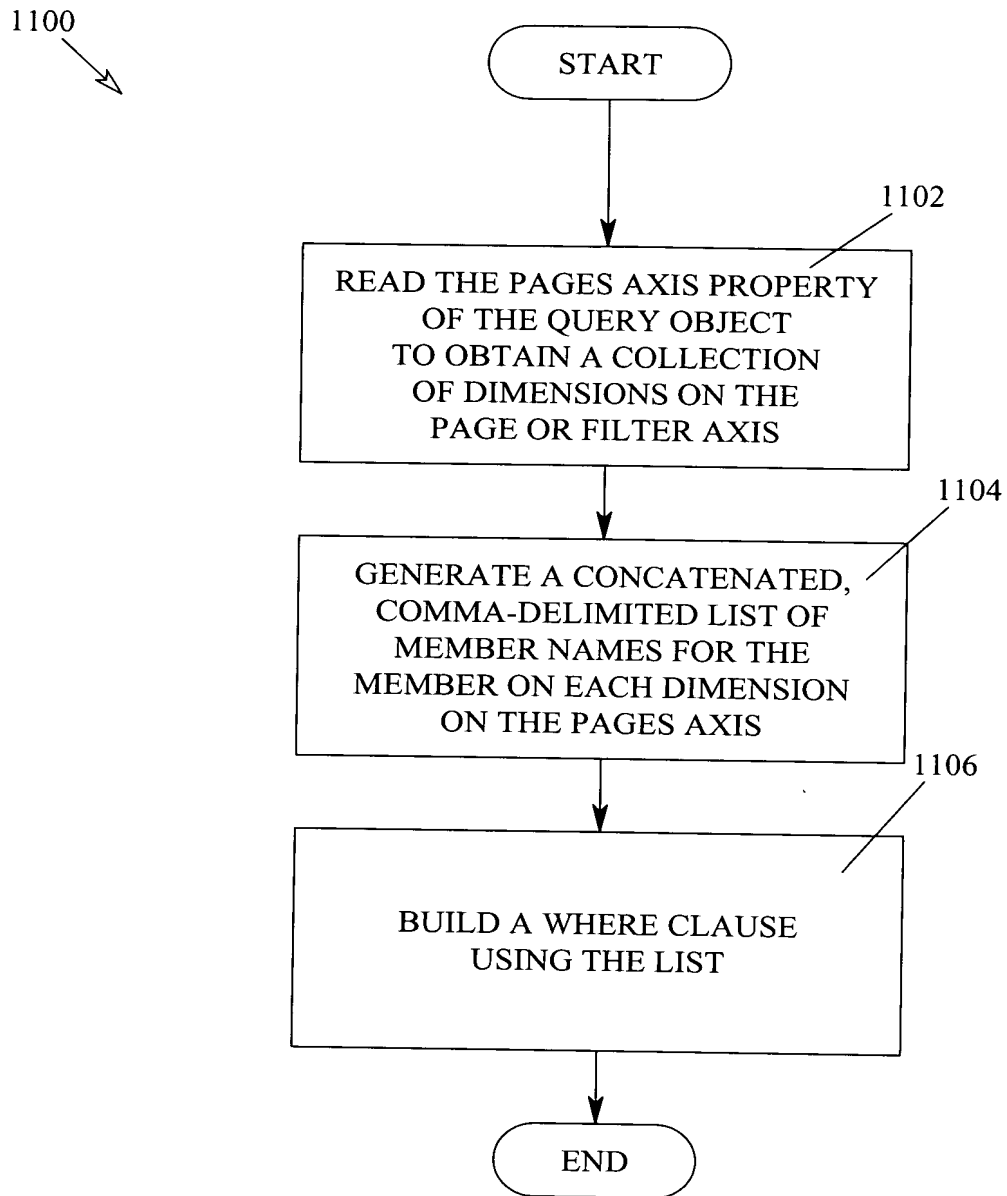


FIG. 11

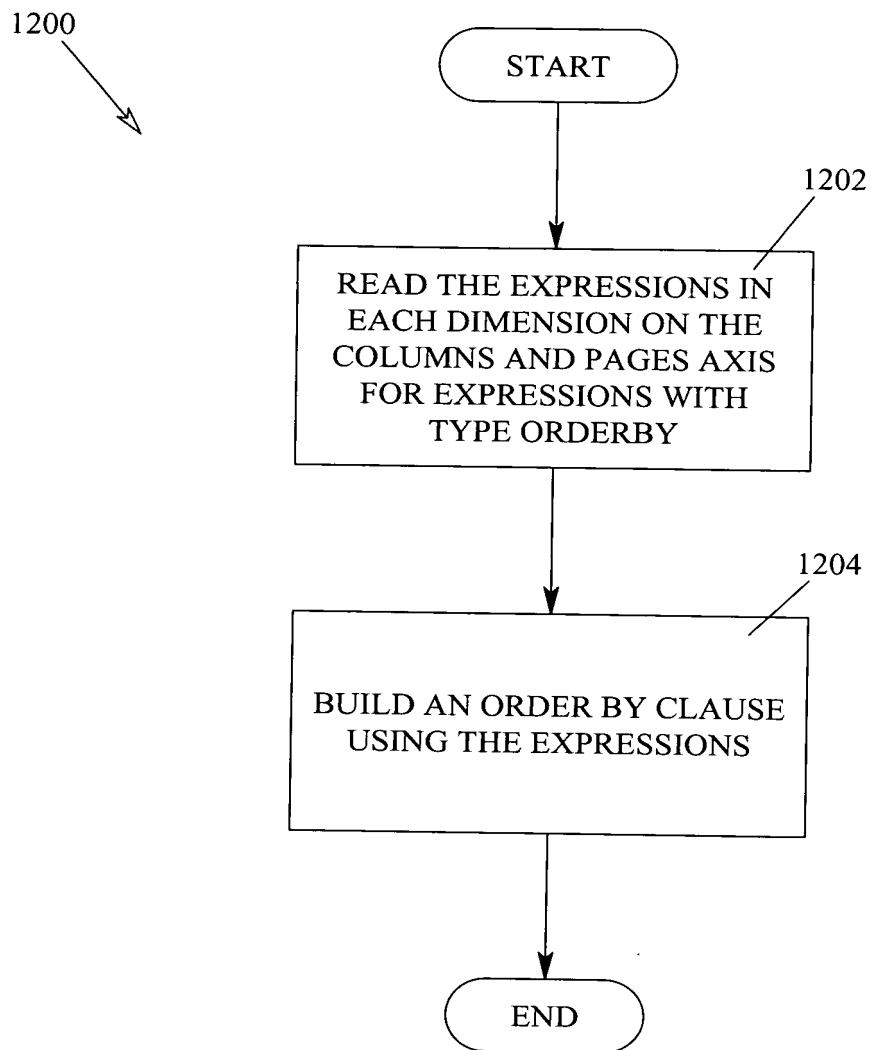


FIG. 12

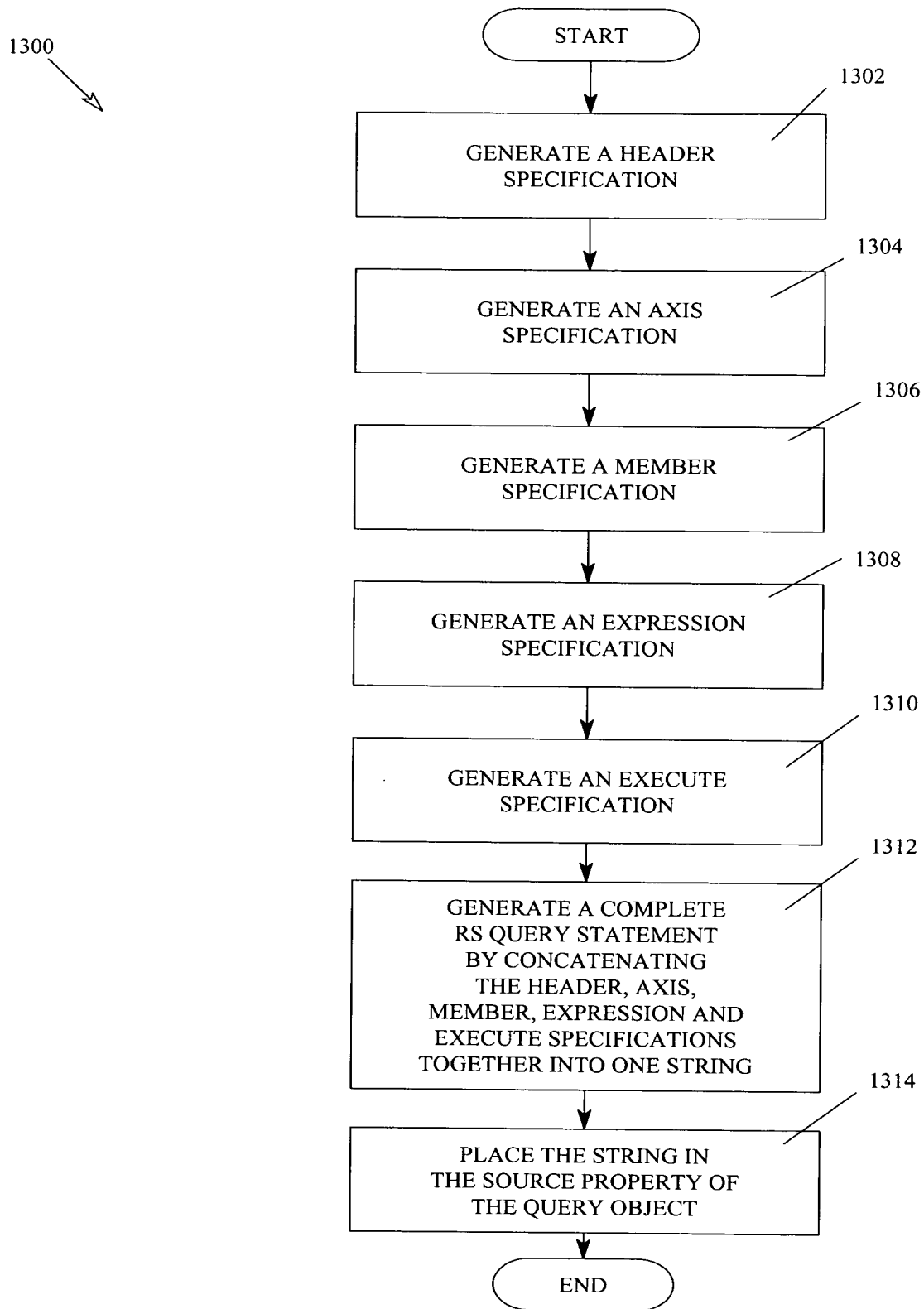


FIG. 13

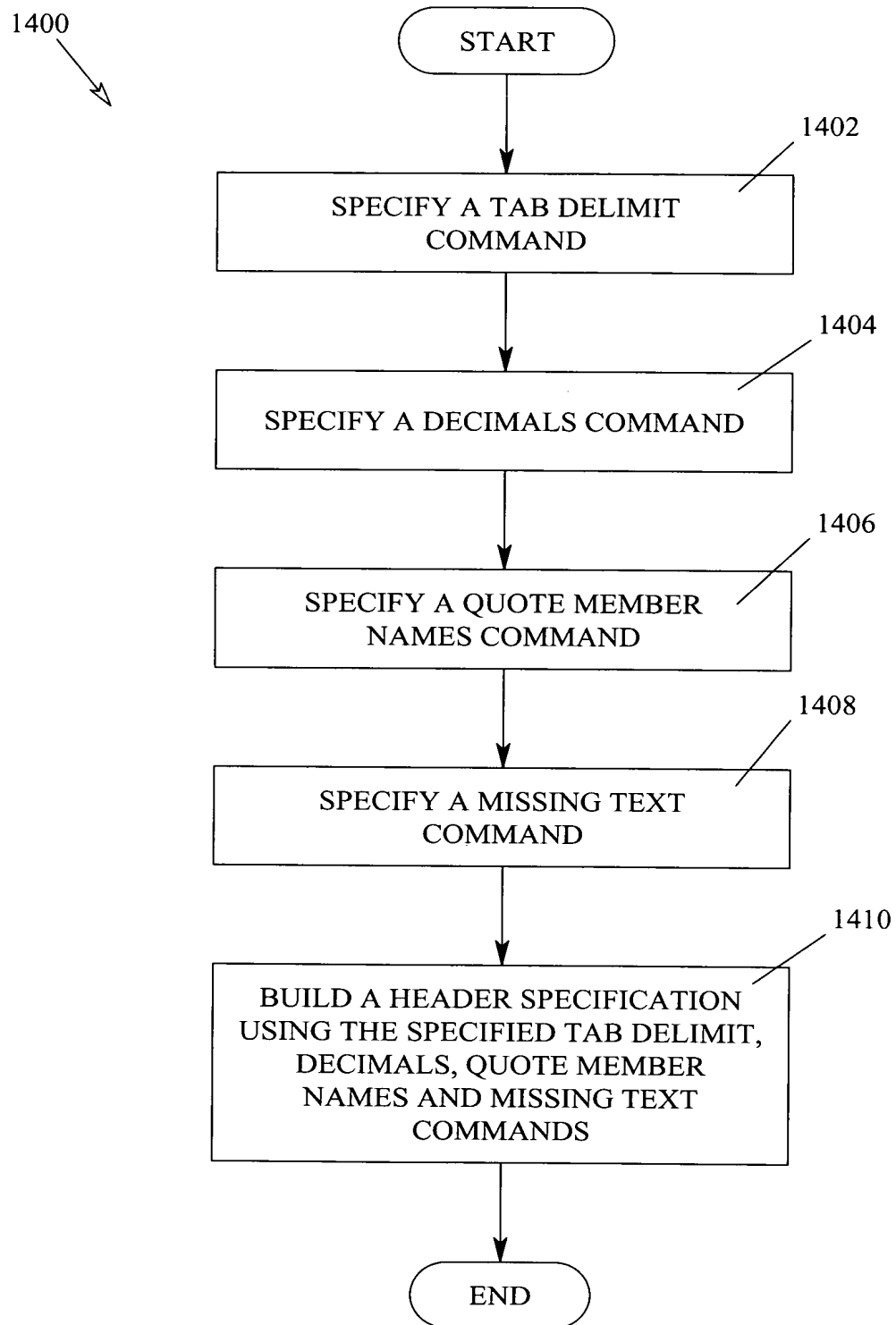


FIG. 14

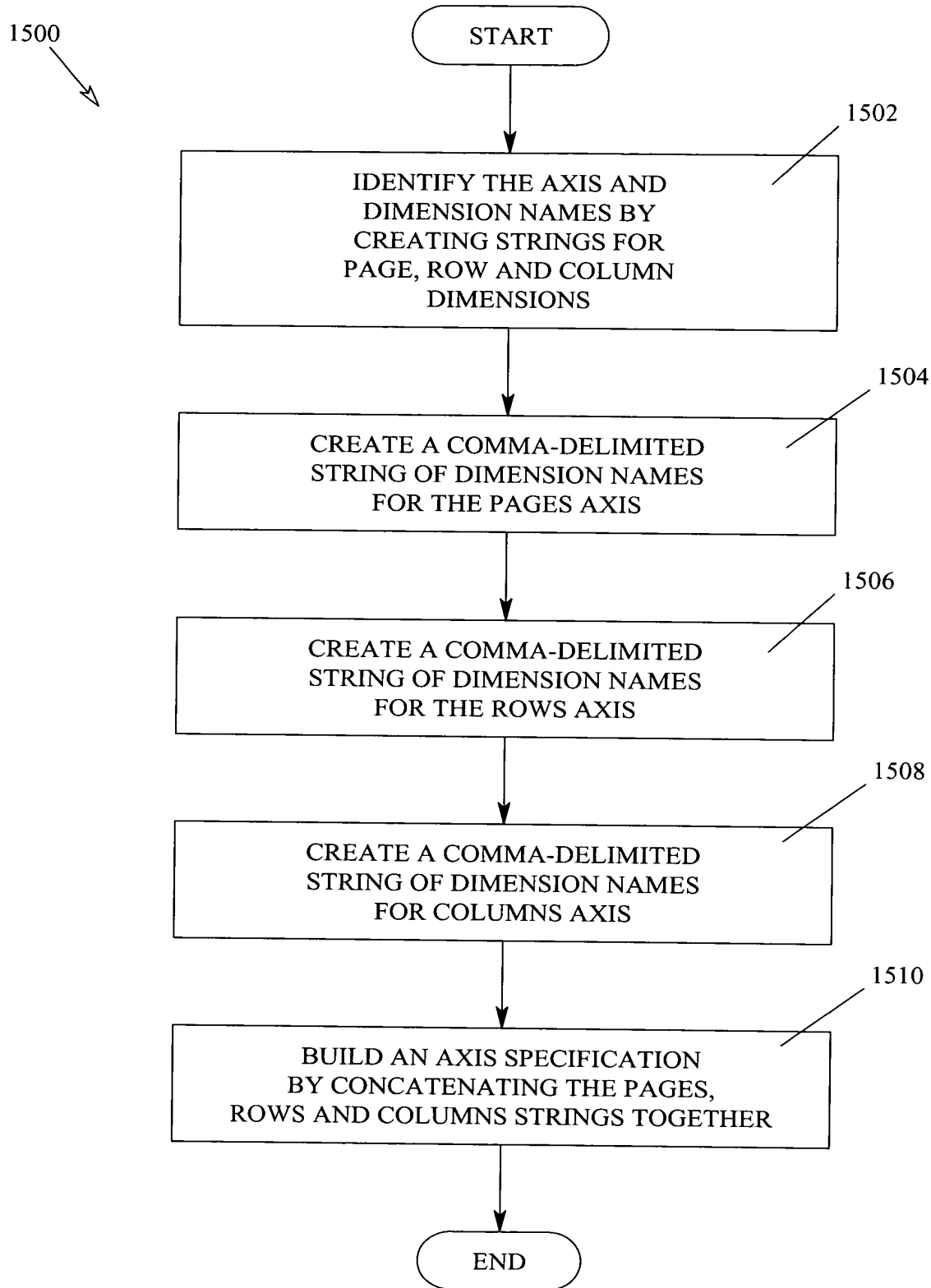


FIG. 15

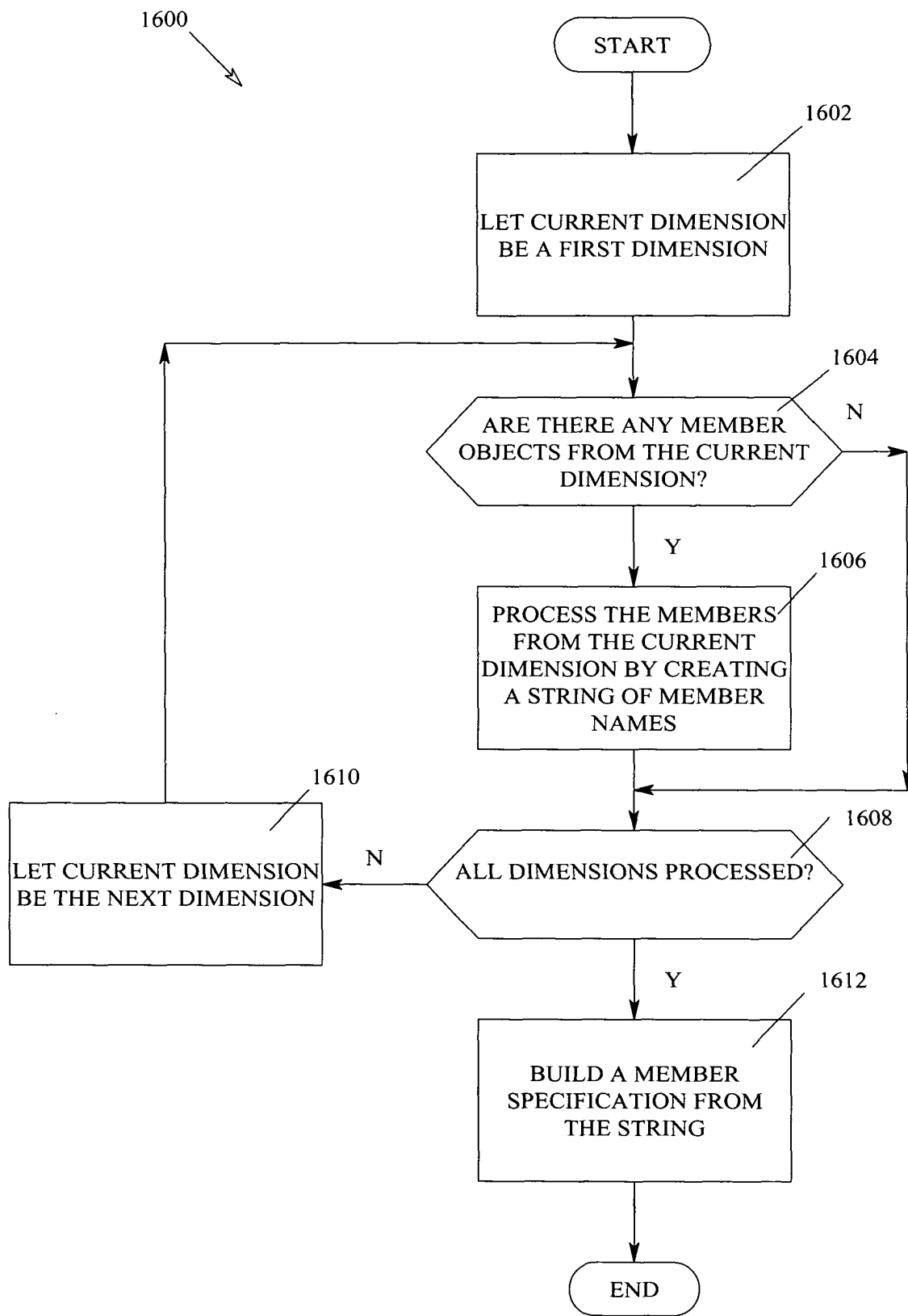


FIG. 16



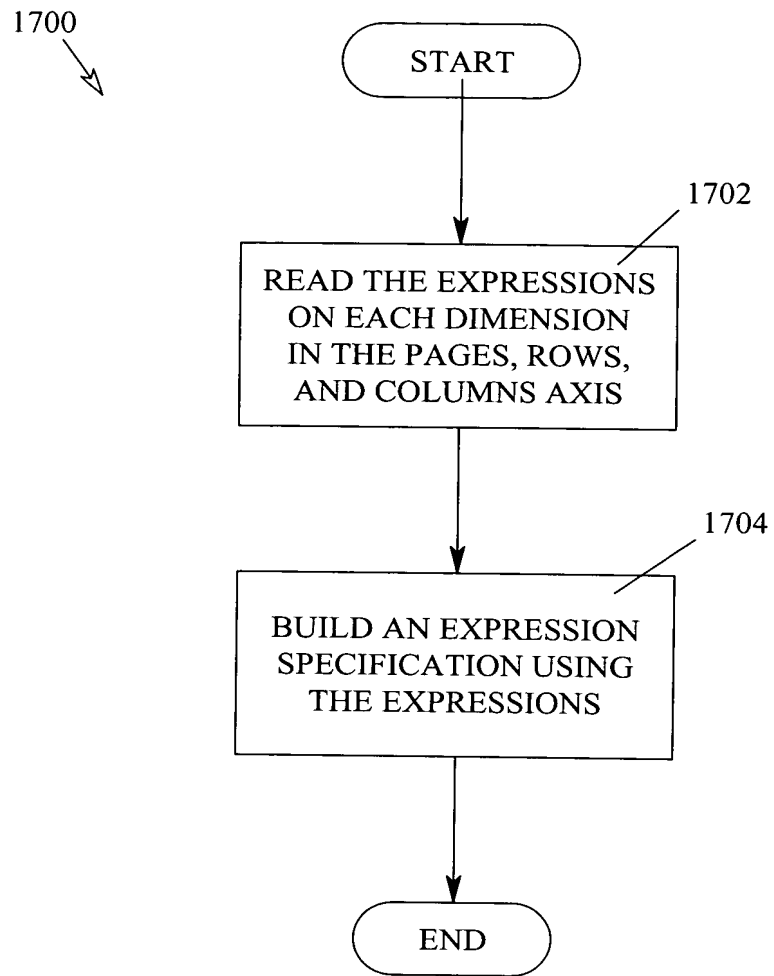


FIG. 17

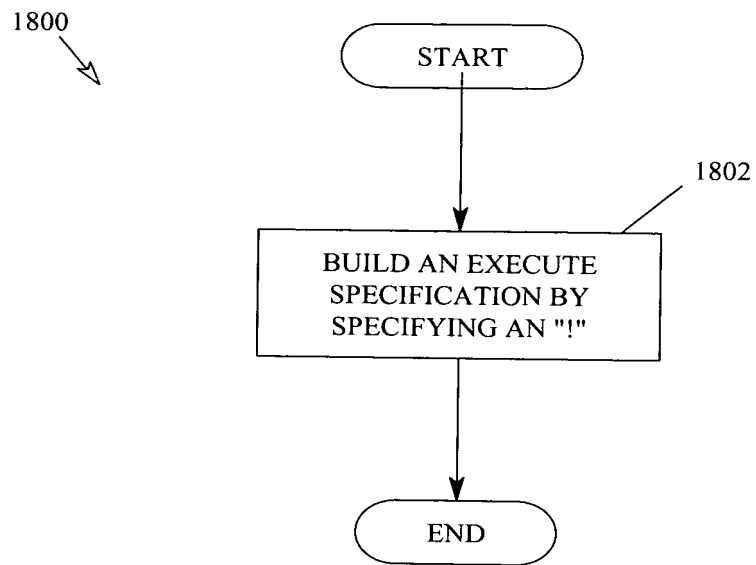


FIG. 18

1900



| FUNCTION    | DESCRIPTION  |
|-------------|--|
| DRILL       | DRILL UP OR DOWN ON A MEMBER                         |
| PIVOT       | MOVE A DIMENSION FROM ONE AXIS TO ANOTHER            |
| KEEP ONLY   | KEEP ONLY THE SELECTED MEMBER(S) FOR THE DIMENSION   |
| REMOVE ONLY | REMOVE ONLY THE SELECTED MEMBER(S) FOR THE DIMENSION |

FIG. 19



| FUNCTION    | PROCESS  |
|-------------|--|
| DRILL       | SET THE <i>RELATIONSHIP</i> (CHILDREN, PARENT, ETC.) PROPERTY ON THE SELECTED MEMBER TO A DRILL OPTION, AND THEN RE-CREATE THE QUERY STATEMENT. FOR SPECIAL DRILL OPTIONS (LIKE DRILL TO ANCESTORS, OR DESCENDANTS), AN EXPRESSION OBJECT MAY BE MORE USEFUL AS IT ALLOWS THE INCLUSION OF ADDITIONAL ARGUMENTS TO SUPPORT THE DRILLING OPERATION.                       |
| PIVOT       | REMOVE THE SELECTED DIMENSION FROM ITS CURRENT AXIS AND ADD IT TO THE TARGET AXIS. NOTE, THE USER MAY ALSO OPTIONALLY SPECIFY AN ORDINAL AT WHICH TO ADD THE DIMENSION. THIS DRIVES THE ORDER OF ALL DIMENSIONS ON THE AXIS. NOTE, THE "FROM" AND "TO" AXIS MAY BE THE SAME IF THE USER IS SIMPLY RE-ORDERING THE DIMENSIONS ON THE AXIS. RE-CREATE THE QUERY STATEMENT. |
| KEEP ONLY   | REMOVE ALL MEMBERS EXCEPT THE SELECTED MEMBER(S) FROM THE AFFECTED DIMENSION. THEN, RE-CREATE THE QUERY STATEMENT.   |
| REMOVE ONLY | REMOVE ONLY THE MEMBER(S) SPECIFIED FROM THE AFFECTED DIMENSION. THEN RE-CREATE THE QUERY STATEMENT.   |

FIG. 20

2100



| AXIS<br>COLLECTION | DIMENSION    | MEMBER     |
|--------------------|--------------|------------|
| ROWS               | ACCOUNTS     | REVENUE    |
|                    |              | EXPENSES   |
|                    |              | NET INCOME |
|                    | TIME         | QUARTER 1  |
|                    |              | QUARTER 2  |
|                    |              | QUARTER 3  |
|                    |              | QUARTER 4  |
| COLUMNS            | FISCAL YEARS | 1999       |
|                    |              | 2000       |

FIG. 21

2200



|                   |                  | 1999    | 2000    |
|-------------------|------------------|---------|---------|
| <b>REVENUE</b>    | <b>QUARTER 1</b> | 1000.00 | 1400.00 |
|                   | <b>QUARTER 2</b> | 1100.00 | 1500.00 |
|                   | <b>QUARTER 3</b> | 1200.00 | 1600.00 |
|                   | <b>QUARTER 4</b> | 1300.00 | 1700.00 |
| <b>EXPENSES</b>   | <b>QUARTER 1</b> | 1000.00 | 1200.00 |
|                   | <b>QUARTER 2</b> | 1050.00 | 1250.00 |
|                   | <b>QUARTER 3</b> | 1100.00 | 1300.00 |
|                   | <b>QUARTER 4</b> | 1150.00 | 1350.00 |
| <b>NET INCOME</b> | <b>QUARTER 1</b> | 0.00    | 200.00  |
|                   | <b>QUARTER 2</b> | 50.00   | 250.00  |
|                   | <b>QUARTER 3</b> | 100.00  | 300.00  |
|                   | <b>QUARTER 4</b> | 150.00  | 350.00  |

FIG. 22

2300



| AXIS<br>COLLECTION | DIMENSION    | MEMBER     |
|--------------------|--------------|------------|
| ROWS               | TIME         | QUARTER 1  |
|                    |              | QUARTER 2  |
|                    |              | QUARTER 3  |
|                    |              | QUARTER 4  |
|                    | ACCOUNTS     | REVENUE    |
|                    |              | EXPENSES   |
|                    |              | NET INCOME |
| COLUMNS            | FISCAL YEARS | 1999       |
|                    |              | 2000       |

FIG. 23

2400



|                  |                   | 1999    | 2000    |
|------------------|-------------------|---------|---------|
| <b>QUARTER 1</b> | <b>REVENUE</b>    | 1000.00 | 1400.00 |
|                  | <b>EXPENSES</b>   | 1000.00 | 1200.00 |
|                  | <b>NET INCOME</b> | 0.00    | 200.00  |
| <b>QUARTER 2</b> | <b>REVENUE</b>    | 1100.00 | 1500.00 |
|                  | <b>EXPENSES</b>   | 1050.00 | 1250.00 |
|                  | <b>NET INCOME</b> | 50.00   | 250.00  |
| <b>QUARTER 3</b> | <b>REVENUE</b>    | 1200.00 | 1600.00 |
|                  | <b>EXPENSES</b>   | 1100.00 | 1300.00 |
|                  | <b>NET INCOME</b> | 100.00  | 300.00  |
| <b>QUARTER 4</b> | <b>REVENUE</b>    | 1300.00 | 1700.00 |
|                  | <b>EXPENSES</b>   | 1150.00 | 1350.00 |
|                  | <b>NET INCOME</b> | 150.00  | 350.00  |

FIG. 24



2500



| AXIS<br>COLLECTION | DIMENSION    | MEMBER     |
|--------------------|--------------|------------|
| ROWS               | TIME         | QUARTER 1  |
|                    |              | QUARTER 2  |
|                    |              | QUARTER 3  |
|                    |              | QUARTER 4  |
| COLUMNS            | FISCAL YEARS | 1999       |
|                    |              | 2000       |
|                    | ACCOUNTS     | REVENUE    |
|                    |              | EXPENSES   |
|                    |              | NET INCOME |

FIG. 25

2600



|              |         | 1999     |               |         | 2000     |               |
|--------------|---------|----------|---------------|---------|----------|---------------|
|              | REVENUE | EXPENSES | NET<br>INCOME | REVENUE | EXPENSES | NET<br>INCOME |
| QUARTER<br>1 | 1000.00 | 1000.00  | 0.00          | 1400.00 | 1200.00  | 200.00        |
| QUARTER<br>2 | 1100.00 | 1050.00  | 50.00         | 1500.00 | 1250.00  | 250.00        |
| QUARTER<br>3 | 1200.00 | 1100.00  | 100.00        | 1600.00 | 1300.00  | 300.00        |
| QUARTER<br>4 | 1300.00 | 1150.00  | 150.00        | 1700.00 | 1350.00  | 350.00        |

FIG. 26

2700  
↙

|              |         | 1999     |               |         | 2000     |               |
|--------------|---------|----------|---------------|---------|----------|---------------|
|              | REVENUE | EXPENSES | NET<br>INCOME | REVENUE | EXPENSES | NET<br>INCOME |
| QUARTER<br>1 | 1000.00 | 1000.00  | 0.00          | 1400.00 | 1200.00  | 200.00        |
| QUARTER<br>2 | 1100.00 | 1050.00  | 50.00         | 1500.00 | 1250.00  | 250.00        |
| QUARTER<br>3 | 1200.00 | 1100.00  | 100.00        | 1600.00 | 1300.00  | 300.00        |
| QUARTER<br>4 | 1300.00 | 1150.00  | 150.00        | 1700.00 | 1350.00  | 350.00        |

FIG. 27